

## Special Issue

# Crop Yield and Nutrient Use Efficiency

### Message from the Guest Editor

The efficient use of mineral nutrients provides national food security and high-quality agricultural products, beautifies the living environment, supports nutrient-efficient breeding, and promotes the healthy development of the fertilizer industry. However, the growth rate of crop nutrient use efficiency is much slower than that of global fertilizer use. Thus, the agricultural interface faces unprecedented challenges in terms of improving crop nutrient use efficiency. This Special Issue aims to communicate all advances and perspectives in crop nutrition research nationally and internationally. Key topics include the molecular biology and the physiological process of crop nutrition; the relationship between soil, fertilizers, and crop nutrients; the influence of plant-microbe interactions on nutrient balance; the changing rules and adjustment principles of various fertilizers in soil; the nutrition of the plant rhizosphere; fertilization and the environment; and fertilization and agricultural product quality. Innovative scientific works, new techniques and methods, communications, literature reviews, and discussions are welcome.

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### Guest Editor

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### Deadline for manuscript submissions

closed (31 December 2025)



## Applied Sciences

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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